

Short Answer Questions

Q.1. Paheli kept an empty bottle made of plastic inside a refrigerator. After few hours, when she opened the refrigerator she found the bottle had collapsed. Explain the possible reason.

[NCERT Exemplar]

Ans. The air inside the bottle contracts due to low temperature hence the bottle collapses due to the outside pressure.

Q.2. When strong/high speed wind blows, an umbrella held upright at times gets upturned. Explain the reason.

[NCERT Exemplar]

Ans. High speed wind passing over the umbrella creates low pressure. Therefore, the umbrella upturns.

Q.3. Suggest some precautions to be taken to prevent the roof of a tin sheet from flying away during a fierce wind storm.

[NCERT Exemplar]

Ans. (a) Put heavy stones on it.

(b) Screw it tight.

Q.4. Write three precautions that need to be taken in cyclone prone areas.

Ans. (a) Stay indoors if possible.

(b) Listen to the radio or T.V. for weather reports during the cyclone season.

(c) Keep emergency medicines, clothes, ration and water ready for instant use.

Q.5. Write three precautions that need to be taken during a thunderstorm.

Ans. (a) Do not lie on the ground or take shelter under an isolated tree.

(b) If you are in water, move out of it.

(c) Do not take shelter under an umbrella with a metallic rod.

Q.6. List the dangers associated with a cyclone.

Ans. (a) Strong water waves are produced by winds.

(b) Strong winds push water towards the shore.

(c) Low pressure in the eye lifts water surface in the centre and sea water enters coastal areas.

Q.7. Why does a balloon taken near a candle burst?

Ans. When a balloon is brought near a candle the molecules heat up and the balloon starts expanding. When the balloon no longer can expand it bursts.

Q.8. List two reasons that can cause floods.

Ans. (a) Heavy rainfall

(b) Deforestation